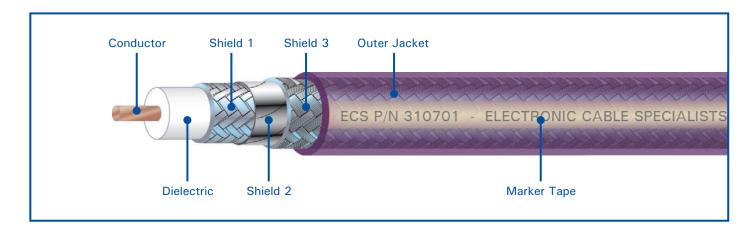
# **50 Ohm Coaxial Cable**

P/N 310701





#### **CONSTRUCTION DETAILS**

Conductor: 7 AWG solid copper clad aluminum Dielectric: High temperature fluoropolymer Shield 1: Flat silver-plated copper braid

Shield 2: Aluminum tape

Shield 3: Silver-plated copper braid

Jacket: Purple high temperature fluoropolymer

# **ENVIRONMENTAL DETAILS**

- » ECS avionics cables are designed to meet, or exceed, burn requirements as set forth in Federal Aviation Regulations 14 CFR Part 25.869(a)(4) Amdt 25-113, Appendix F Part I(a)(3).
- » They are manufactured with materials which, when subjected to flames or high temperatures, will not outgas deadly hydrogen chloride produced by conventional PVC cables.

## PHYSICAL CHARACTERISTICS

Outer Diameter: 0.485 in. nominal Bend Radius: 3.0 in. nominal Weight: 18 lbs/100 ft. nominal Temperature Range: -55° to +150°C

Skydrol Resistant: Yes

## **ELECTRICAL CHARACTERISTICS**

Impedance: 50.0 Ohms nominal Capacitance: 25 pF/ft. nominal

DC Resistance: 0.85 Ohms/1000 ft. nominal

Time Delay: 1.25 ns/ft. nominal Velocity of Propagation: 81% nominal

Shield Effectiveness: > 90 dB

Attenuation: 1.0 dB/100 ft. @ 150 MHz (nominal) 3.1 dB/100 ft. @ 1000 MHz 3.9 dB/100 ft. @ 1600 MHz 4.6 dB/100 ft. @ 2400 MHz 7.2 dB/100 ft. @ 5000 MHz

### **CONNECTOR TYPES FOR CABLE 310701**

Connector Type	Connector P/N
TNC 90°	CTRO02
TNC 90° Extended	N/A
TNC 90° Long	N/A
TNC Straight	CTS002
TNC Panel Mount	N/A
TNC Bulkhead	BTSO02
C 90°	CCR002
C Straight	N/A

Connector Type	Connector P/N
BNC 90°	N/A
BNC 90° Extended	N/A
BNC 90° Long	N/A
BNC Straight	N/A
BNC Bulkhead	N/A
N 90°	CNRO02
N Straight	CNSO02
N Bulkhead	BNSO02

Connector Type	Connector P/N
ARINC 404 Size 1	N/A
ARINC 600 Size 1	L0102
ARINC 600 Size 1RF	N/A
ARINC 600 Size 5	N/A
SMA 90°	N/A
SMA Straight	N/A
HN 90°	N/A
ARINC 600 Size 8	N/A

